

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. Contract ID Code Cost-Plus-Fixed-Fee		Page 1 Of 8	
2. Amendment/Modification No.  P00004		3. Effective Date  2005SEP28		4. Requisition/Purchase Req No.  SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM WARREN AMSTA-AQ-ADBB PATRICIA ANN BIERI (586)574-8286 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: BIERIP@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) DCMA CENTRAL PENNSYLVANIA - YORK PO BOX 15512 YORK PA 17405-1512		Code S4201A	
				SCD C PAS NONE ADP PT HQ0337			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)  BAE SYSTEMS LAND & ARMAMENTS, L.P. GROUND SYSTEMS DIVISION 1100 BAIRS ROAD PO BOX 15512 YORK, PA 17405-1512  TYPE BUSINESS: Large Business Performing in U.S.				<input type="checkbox"/>		9A. Amendment Of Solicitation No.	
				<input type="checkbox"/>		9B. Dated (See Item 11)	
				<input checked="" type="checkbox"/>		10A. Modification Of Contract/Order No. DAAE07-02-C-T016	
				<input type="checkbox"/>		10B. Dated (See Item 13) 2002SEP19	
Code 06085		Facility Code					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. <b>FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.</b> If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) ACRN: AB NET INCREASE: \$190,000.00							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS</b>							
KIND MOD CODE: C It Modifies The Contract/Order No. As Described In Item 14.							
<input type="checkbox"/> A. This Change Order is Issued Pursuant To: The Contract/Order No. In Item 10A. <span style="float: right;">The Changes Set Forth In Item 14 Are Made In</span>							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input checked="" type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of: Mutual Agreement of The Parties							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
<b>E. IMPORTANT:</b> Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  SEE SECOND PAGE FOR DESCRIPTION							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) M. J. FRANZEN FRANZENM@TACOM.ARMY.MIL (586)574-6304			
15B. Contractor/Offeror  _____ (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America  By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed  2005SEP28	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> DAAE07-02-C-T016 <b>MOD/AMD</b> P00004	<b>Page</b> 2 <b>of</b> 8
<b>Name of Offeror or Contractor:</b> BAE SYSTEMS LAND & ARMAMENTS, L.P.		

SECTION A - SUPPLEMENTAL INFORMATION

1. This Modification P00004 is a Bi-Lateral Supplemental Agreement.
2. For administrative purposes only, Modification P00001 will not be used nor issued.
3. The purpose of this Modification is to make the following changes and additions:

A. C-1 "M9 ACE HYDRAULIC DIAGNOSTIC CENTER (HDC) SCOPE OF WORK" is changed as follows and included in entirety with this modification:

- i. Change paragraph 4)g) to read:

g) Create a M9 ACE TM 5-2350-378-24&P manual to reflect changes in the vehicle design and maintenance concept due to the addition of the HDC. The M9ACE TM 5-2350-378-24&P manual will supplement the following manuals. Electronic files of current technical manuals will be provided as Government furnished information at start of contract. Furnished files will include both art and text. Art will be in vector format and text will be compatible with BAE publishing system or in ASCII format.

- ii. Change paragraph 5)g) to read:

g) Complete Manual updates April 30, 2006

B. "GOVERNMENT FURNISHED MATERIAL (GFM)", as stated in attached C-2, is provided to the contractor to meet the requirements of this contract. The handling of the GFM will be made in accordance with I-1 Report of Government Property. Both C-2 and I-1 are incorporated with this modification.

C. CLIN 0001AB is established for the additional efforts described in C-3 "HDC TM/MWO CHANGES" and C-4 "DISPOSITIONING OF GFM". CLIN 0001AB is funded for the estimated cost of \$172,769.00 plus fixed-fee of \$17,231.00, total cost-plus-fixed-fee of \$190,000.00. CLIN 0001AB is required due to:

- i. Based on a decision to not apply the HDC to vehicles with the 3/8" hull bottom, portions of the Modification Work Order (MWO) and of the Technical Manuals (TM) (per C-1 4)) require redoing.
- ii. Requiring accommodation of certain aspects of MIL-STD 40051-2 (publications) which were not in the original contract requirements.
- iii. The contractor is dispositioning the facility vehicle (shipping to TACOM) and old residual M9 ACE hardware (shipped to Anniston).

D. The contract period performance is extended until June 30, 2006. This is to ensure sufficient time to update and convert the TM, prepare for and conduct the validation/verification, incorporate validation/verification changes and TACOM publication comments, and deliver the TM.

4. The changes in 3.A. and 3.B. are made with no change to the total contract amount.
5. The Total Contract Amount, for the new efforts in 3.C. above, is increased by \$190,000.00 from \$1,705,017.00 to \$1,895,017.00.
6. The Contractor releases the Government from any further claim for equitable adjustment relating to the changes made by this modification.
7. All other terms and conditions remain unchanged and in full force and effect.

Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS, L.P.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
				CLIN 0001AA:	
				ESTIMATED COST:	\$ 1,550,967.00
				FIXED-FEE:	\$ 154,050.00
				TOTAL COST-PLUS-FIXED-FEE:	\$ 1,705,017.00
	(End of narrative A002)				
0001AA	COST-PLUS-FIXED-FEE				\$ 1,705,017.00
	PRON: A126A334EH PRON AMD: 02 ACRN: AA AMS CD: 53901110187				
	M9 ACE HYDRAULIC DIAGNOSTIC CENTER IN ACCORDANCE WITH SCOPE OF WORK AT C-1 AND C-2.				
	(End of narrative B001)				
	Inspection and Acceptance				
	INSPECTION: Origin ACCEPTANCE: Origin				
	Deliveries or Performance				
	DLVR SCH			PERF COMPL	
	REL CD QUANTITY DATE				
	001 0 31-DEC-2006				
	\$ 1,705,017.00				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB				CLIN 0001AB:	
				ESTIMATED COST:	\$ 172,769.00
				FIXED-FEE:	\$ 17,231.00
				TOTAL COST-PLUS-FIXED-FEE:	\$ 190,000.00
	(End of narrative A001)				
	<u>COST-PLUS-FIXED-FEE</u>				\$ 190,000.00
	PRON: P146M0182T PRON AMD: 01 ACRN: AB AMS CD: 53901110187				
	M9 ACE HYDRAULIC TM/MWO CHANGES AND DISPOSITIONING OF GFM IN ACCORDANCE WITH SCOPE OF WORK AT C-3 AND C-4.				
	(End of narrative B001)				
	<u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin				
<u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 31-DEC-2006  \$ 190,000.00					

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> DAAE07-02-C-T016 <b>MOD/AMD</b> P00004	<b>Page</b> 5 <b>of</b> 8
<b>Name of Offeror or Contractor:</b> BAE SYSTEMS LAND & ARMAMENTS, L.P.		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C-1      M9 ACE HYDRAULIC DIAGNOSTIC CENTER (HDC) SCOPE OF WORK

- 1) HDC paper, Armored Combat Earthmover, M9 ACE, Hydraulic Diagnostic Center System Description, March 13, 2001, serves as the underlying concept for this project. This paper recommends 33 test point locations covering 103 troubleshooting tests. These parameters remain valid, although they may be changed based on final design decisions.
- 2) The system will consist of a central control box, data bus, sensors, solenoid valves, and valve manifolds.
  - a) The software shall reside in the central control box for communication with each sensor via the data bus and provide the readout to the maintainer.
  - b) Commercially available Controlled Area Network (CAN) technology will be used to provide hydraulic system parameter readout from chosen locations to the central control box on the vehicle.
  - c) The central control box will include the capability to select the applicable sensor and display the selected sensor pressure. The central location will also include switches or manifold for operating solenoid valves.
  - d) To the extent possible, commercial or existing military components shall be used in the system design, to include sensors, transducers, switches, valves, manifolds, control box, and digital readout device.
- 3) Contractor shall design the HDC using the following guidelines and based on the March 13, 2001 concept paper:
  - a) Based on Government furnished red-lined TM 5-2350-262-20-3 to correct existing errors, the contractor shall develop a preliminary design for Government review and concurrence. As part of this preliminary design, the contractor shall:
    - i) Determine final sensor locations based on the following order of priority: suspension actuators, hard to reach places, critical parameters.
    - ii) Determine quantity of solenoid valves and manifolds based on number of sensors, sensor locations, and the M9 ACE hydraulic system design constraints.
    - iii) Define HDC system requirements.
    - iv) Define HDC component specifications.
- 4) Subsequent to HDC system design, the contractor shall:
  - a) Develop the HDC system and procure/fabricate system components for three each operational systems.
  - b) Install the system on one each government furnished M9 ACE vehicle at York, PA.
  - c) Troubleshoot and test the system.
  - d) Verify system performance.
  - e) Develop Modification Work Order (MWO) installation instructions for the HDC system.
  - f) Assist in installation of the HDC on two each vehicles, one at TACOM and one at Anniston Army Depot.
  - g) Create a M9 ACE TM 5-2350-262-14&P manual to reflect changes in the vehicle design and maintenance concept due to the addition of the HDC. The M9ACE TM 5-2350-262-14&P manual will supplement the following manuals. Electronic files of current technical manuals will be provided as Government furnished information at start of contract. Furnished files will include both art and text. Art will be in vector format and text will be compatible with UDLP publishing system or in ASCII format.
    - i) M9 ACE TM 5-2350-262-10 (Operator Manual)
    - ii) M9 ACE TM 5-2350-262-20-1, -2 (Unit Maint Manual)
    - iii) M9 ACE TM 5-2350-262-20-3 (Troubleshooting TM)
    - iv) M9 ACE TM 5-2350-262-34 (DS and GS Maint Manual)
    - v) M9 ACE TM -2350-262-24P (RPSTL)
- 5) The contractor will meet the following schedule for the HDC development effort:
 

a) Complete preliminary design and hold design review	6 MAC
b) Submit proposal for detailed design and build phase	7 MAC
c) Government provide go-ahead for Detailed Design Phase	7.5 MAC
d) Hold critical design review	14 MAC
e) Start test of systems	17 MAC
f) Complete Test	18 MAC
g) Complete Manual updates	June 30, 2004

Changes necessitated as the result of test may increase this schedule.
- 6) Submission of all items for review and subsequent approvals shall be coordinated with the PEO, CS & CSS.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-02-C-T016 MOD/AMD P00004	Page 6 of 8
Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS, L.P.		

C-2 GOVERNMENT FURNISHED MATERIAL (GFM)

GFM will be provided to meet the requirements of this contract. GFM will be managed in accordance with UDLP's existing approved procedures. UDLP shall be responsible for inventory and control of GFM until contract completion.

The Government will provide the following items as GFM:

- a) Nut, Self Locking, P/N MS17829-6C, quantity of 42
- b) Washer, Flat, P/N MS27183-10, quantity of 50
- c) Washer, Flat, P/N MS27183-14, quantity of 50
- d) Washer, Flat, P/N MS27183-18, quantity of 50
- e) Washer, Lock, P/N MS35338-44, quantity of 50
- f) M9ACE Vehicle, S/N 575, NSN 2530-00-808-7100

The M9ACE Vehicle is being transferred from UDLP's STS subcontract with MTS Technologies (Contract MTS-00-6601-001-01) for use on this contract. When the effort under Contract DAAE07-02-C-T016 is accomplished, the M9ACE Vehicle, S/N 575, will be delivered to TACOM pending directions at that time.

\*\*\* END OF NARRATIVE C 002 \*\*\*

C-3 HDC TM/MWO CHANGES

- 1) The contractor shall update the draft ACE Hydraulic Diagnostic Center (HDC) Technical Manual (TM) to:
  - a. Incorporate changes required by the deletion of the 3/8 hull bottom from the HDC applicability.
  - b. Incorporate changes required as a result of HDC systems installations and HDC TDP finalization.
  - c. Convert the TM to Mil-Std-40051 format as previously directed by TACOM Publications. This includes replacement of digital photography in RPSTL figures with isometric drawings. Digital photography is acceptable for maintenance tasks.
  - d. Deliver revised draft TM for validation/verification in hardcopy.
- 2) The contractor shall update the draft TM to include comments/changes resulting from a Government conducted val/ver (contractor will not be required to participate in val/ver).
- 3) Delivery of final draft TM will consist of non-linked PDF files on CD-ROM and hard copies.
- 4) The contractor shall provide telephonic assistance as required during the Government-conducted val/ver of the previously delivered Modification Work Order (MWO). Contractor shall update the MWO incorporate changes resulting from val/ver.
- 5) Schedule will be as determined during start of work meeting to be held within 30 DAC.

\*\*\* END OF NARRATIVE C 003 \*\*\*

C-4 Dispositioning of GFM

- 1) The contractor will disposition the facility vehicle by shipping it to TACOM (at the completion of the contract). Residual GFM from the STS Subcontract with MTS (MTS-00-6601-001-01) is transferred to this contract. This material will be dispositioned by shipping it to Anniston Army Depot.

\*\*\* END OF NARRATIVE C 004 \*\*\*

SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ ITEM MIPR	OBLG STAT/ ACRN JOB ORD NO			PRIOR AMOUNT	INCREASE/DECREASE AMOUNT		CUMULATIVE AMOUNT
0001AB	P146M0182T	AB 1	\$		0.00	\$	190,000.00	\$ 190,000.00
	53901110187	4ZCCM9						
	A14P51871CM9							
					NET CHANGE	\$	190,000.00	

SERVICE NAME	NET CHANGE BY ACRN	ACCOUNTING CLASSIFICATION	ACCOUNTING STATION	INCREASE/DECREASE AMOUNT
Army	AB	21 42035000041C1C09P53901125FB S20113	W56HZV	\$ 190,000.00
			NET CHANGE	\$ 190,000.00

		PRIOR AMOUNT OF AWARD		INCREASE/DECREASE AMOUNT		CUMULATIVE OBLIG AMT
NET CHANGE FOR AWARD:	\$	1,705,017.00	\$	190,000.00	\$	1,895,017.00

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 8 of 8
	PIIN/SIIN DAAE07-02-C-T016	MOD/AMD P00004	
Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS, L.P.			

SECTION I - CONTRACT CLAUSES

Status	Regulatory Cite	Title	Date
I-1 ADDED	252.245-7001	REPORTS OF GOVERNMENT PROPERTY	MAY/1994
(a) The Contractor shall provide an annual report--			
(1) For all DoD property for which the Contractor is accountable under the contract;			
(2) Prepared in accordance with the requirements of DD Form 1662, DoD Property in the Custody of Contractors, or approved substitute, including instructions on the reverse side of the form;			
(3) In duplicate, to the cognizant Government property administrator, no later than October 31.			
(b) The Contractor is responsible for reporting all Government property accountable to this contract, including that at subcontractor and alternate locations.			
(End of clause)			